

## Jackson County

### Estimated Economic Impact of Agriculture, Food, and Food Processing Sectors

6/11/2018

Using the most recent IMPLAN data available (2016) adjusted for 2018, 16 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Jackson County economy.<sup>1</sup>

These 16 sectors have a total direct output of approximately **\$211.7 million** and support **1,208 jobs** in Jackson County. Running the model for all 16 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Jackson County Economy						
Impact Type <sup>2</sup>	Employment	% Employment	Total Value Added <sup>3</sup>	Total Value Added % of Gross Regional Product <sup>4</sup>	Output <sup>5</sup>	Output % of Gross Regional Product
Direct Effect	1208.4	17.03%	\$42,424,555	9.65%	\$211,678,075	48.14%
Indirect Effect	114.7	1.62%	\$7,456,407	1.70%	\$16,178,999	3.68%
Induced Effect	34.7	0.49%	\$2,351,985	0.53%	\$4,382,485	1.00%
Total Effect	1357.8	19.14%	\$52,232,947	11.88%	\$232,239,559	52.82%

As shown in the above table, agriculture, food, and food processing sectors support **1,358 jobs**, or **19.14%** of the entire workforce in the county. These sectors provide a total economic contribution of approximately **\$232.2 million**, roughly **52.82% of the economy**.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 16 agriculture, food, and food processing sectors is approximately **\$52.2 million**, or **11.88% of the GRP**. This indicates that personal income, business income, and taxes generated by these sectors account for **11.88% of the total economy**.

The following tables document the top industries affected by employment and output, as well as a listing of all industries that were analyzed.

<sup>1</sup> Article on building a contribution analysis in IMPLAN that avoids double counting:

[http://www.implan.com/index.php?option=com\\_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70](http://www.implan.com/index.php?option=com_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70)

<sup>2</sup> Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

<sup>3</sup> Value added = labor income + indirect business taxes + other property type income.

<sup>4</sup> GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

<sup>5</sup> Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top employer with **635 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Jackson County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	634.6	\$46,988,764
All other crop farming	217.4	\$10,805,527
Meat processed from carcasses	112.0	\$58,804,975
Animal, except poultry, slaughtering	81.7	\$59,710,954
Landscape and horticultural services	52.5	\$1,809,387
Grain farming	36.5	\$8,698,102
Oilseed farming	23.4	\$15,925,131
Wholesale trade	19.3	\$3,500,279
Veterinary services	18.9	\$1,362,847
Truck transportation	18.8	\$2,716,110

The animal, except poultry, slaughtering sector directly contributes approximately **\$59.7 million** to the Jackson County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output		
Sector	Total Employment	Total Output
Animal, except poultry, slaughtering	81.7	\$59,710,954
Meat processed from carcasses	112.0	\$58,804,975
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	634.6	\$46,988,764
Oilseed farming	23.4	\$15,925,131
All other crop farming	217.4	\$10,805,527
Grain farming	36.5	\$8,698,102
Other local government enterprises	14.9	\$4,572,038
Wholesale trade	19.3	\$3,500,279
Truck transportation	18.8	\$2,716,110
Dairy cattle and milk production	6.4	\$2,693,033

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Jackson County economy.

<b>All Agriculture, Food, and Food Processing Sectors</b>		
<b>Sector</b>	<b>Total Employment</b>	<b>Total Output</b>
Oilseed farming	23.4	\$15,925,131.11
Grain farming	36.5	\$8,698,102.14
Vegetable and melon farming	1.4	\$294,589.94
Greenhouse, nursery, and floriculture production	4.4	\$739,113.05
All other crop farming	217.4	\$10,805,526.91
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	634.6	\$46,988,764.08
Dairy cattle and milk production	6.4	\$2,693,032.87
Poultry and egg production	3.0	\$2,303,688.87
Animal production, except cattle and poultry and eggs	7.7	\$663,222.82
Commercial hunting and trapping	1.5	\$31,185.78
Animal, except poultry, slaughtering	81.7	\$59,710,953.82
Meat processed from carcasses	112.0	\$58,804,974.65
Bread and bakery product, except frozen, manufacturing	6.6	\$784,495.29
Frozen cakes and other pastries manufacturing	0.4	\$63,059.09
Veterinary services	18.9	\$1,362,847.16
Landscape and horticultural services	52.5	\$1,809,387.14

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Jackson County, the retail sector was omitted.